

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: PAPIEROK, Gérard; VICENS, Serge; LEMESRE, Jean-Loup

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TITLE: SPECIFIC ISOTYPE ANTIBODIES OF SECRETION-EXCRETION ANTI-ANTIGENS OF *LEISHMANIA* SPOF PROMASTIGOTE OR AMASTIGOTE FORMS, etc...

Amendment B: CLAIM AMENDMENTS

Claims 1 - 15 (canceled).

16. (New) A composition for inducing pathways leading to lysis of amastigotes and promastigotes of *Leishmania* sp. in vitro, through activation of a complement cascade and inducing pathways leading to neutralization of proliferation of said amastigotes and promastigotes of *Leishmania* sp., in dogs immunized with a vaccine complex, said composition comprising:

immunoglobulins of IgG₂, being linked to cell-mediated immunity depending on T lymphocytes of the Th1 type, said immunoglobulins being specific to an epitope, said epitope being located in a carboxyterminal part of Protein Surface Antigens A313, 1A1, W2 and 2G1 or in sequence 133A and being excreted-secreted by amastigotes and promastigotes of *Leishmania* sp.

17. (New) The composition of Claim 16, said immunoglobulins being markers for immunotherapy in leishmaniasis and infections by pathogenic intracellular micro-organisms in mammals.

18. (New) A method for distinguishing between infected dogs and immunized dogs, comprising the steps of:

forming a composition according to Claim 16;

marking cell-mediated immunity by said immunoglobulins; and
detecting cell-mediated immunity depending on T lymphocytes and preferably T lymphocytes of the Th1 type in mammals.

19. (New) A method for distinguishing between infected dogs and immunized dogs, said method comprising the steps of:

forming a composition according to Claim 16;
marking resistance to leishmaniasis by said immunoglobulins; and
marking resistance to infections by pathogenic intracellular micro-organisms in mammals by said immunoglobulins.

20. (New) A method for detecting infected dogs, said method comprising the steps of:

forming a composition of Claim 16;
marking immunoprophylactic and immunotherapeutic vaccination in mammals for leishmaniasis by said immunoglobulins; and
marking infections of pathogenic intracellular micro-organisms by said immunoglobulins.

21. (New) A method for diagnosing dogs, said method comprising the steps of:

forming a composition according to Claim 16 in vitro; and
detecting one or more epitopes carried by terminal ends NH₂ and COOH of said Protein Surface Antigens excreted-secreted by *Leishmania sp.*